

Work Order ID 143649

March 17, 2016 2:17:14 PM

143649

Page 1

Item ID: D3705-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Main Panel
 Start Date: 3/22/2016 Start Qty: 10.00 ***10*** Cust Item ID:
 Required Date: 4/4/2016 Req'd Qty: 10.00 ***10*** Customer:
 Reference:

Approvals: Process Plan: SU Date: 20160317 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3705	E								
100	FLOW WATER JET	0.00							
100									
Waterjet	Memo	0.00							
FLOW CNC Waterjet	1-Cut as per Dwg D3705								
	Dwg Rev: <u>E</u>								
	Prog Rev: <u>E</u>								
	grain direction								
	2- Deburr if necessary								
110	QC2- Inspect parts off machine FAI/FAIB	0.00							
110									
QC	Memo	0.00							
Quality Control									

(12)

03/16/2016

(12)

03/16/2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____			
Misidentified ☐		Past Due ☐					

1 43649

Page 2

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 3/22/2016 **Start Qty:** 10.00 ***10***

Cust Item ID:

Required Date: 4/4/2016 **Req'd Qty:** 10.00 ***10***

Customer:

Reference:

Approvals: _____ **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Operation Description

Set Up/ Run Hours

Tool ID	Tool #	Plan Code
---------	--------	-----------

Accept Qty	Reject Qty	Reject Number	Insp. Stamp DAS
17			38 9-89

120 QC8- Inspect parts - second check

0.00

120

QC

Memo

0.00

Quality Control

MAR 23 2016

130

0.00

130

Small Fab

0.00

Small Fab

Memo

Small Fab

1-COUNTER SINK AS PER DWG
2- BEND AS PER DWG D3705

**DAS
30
9-89**

12

16/03/24

140

0.00

140

QC5- Inspect part completeness to step on W/O

0.00

OC

Memo

Quality Control

DAS
38
9-89

(12)

~~APR 22 2016~~

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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MCS APR 22 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

Picklist Print

March 17, 2016 2:17:18 PM

Page 1

Work Order ID: 143649

143649

Parent Item: D3705-1

D3705-1

Parent Item Name: Main Panel

Start Date: 3/22/2016

Required Date: 4/4/2016

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:A 08-01-30 new issue EC verified by:DD
 IPP Rev:B 09-01-09 rev.C as per dwg DD verified by:EC
 IPP Rev:C as per dwg RevD DD 10.04.27 verified by:EC IPP REV:D
 13.01.15 AS PER DWG REV.E DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6S.080,		Purchased	No			100	sf	187.7000	2.16	22.73684			

M6061T6S 080

6061-T6 .080 Sheet

DL 16/03/22

Location

Loc Qty

Loc Code

MAT020

187.7

134217

32

m132772

39.9

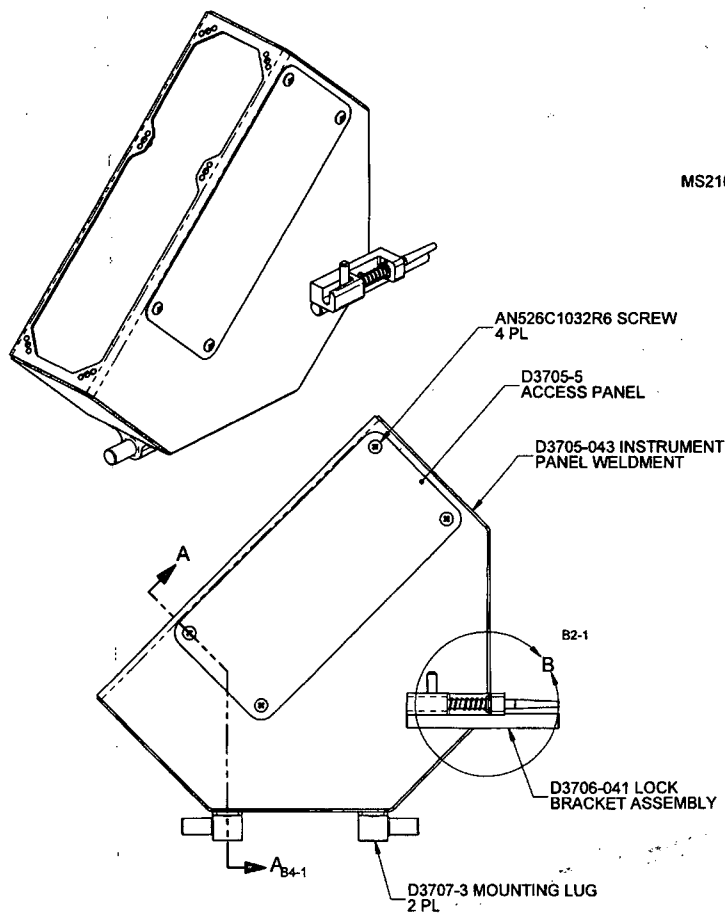
m133587

58

m133828

57.8

32



D3705-041 INSTRUMENT PANEL ASSY

D3705-041 NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N AND B/N PER DART QSI 044 6.1 (PERMANENT INK MARKER)
- 7) WEIGHT: 3.20 lbs

MS21075L3 NUTPLATE
REF

AN526C1032R6 SCREW
4 PL

D3705-5
ACCESS PANEL

D3705-043 INSTRUMENT
PANEL WELDMENT

B2-1

D3706-041 LOCK
BRACKET ASSEMBLY

A_{B4-1}

D3707-3 MOUNTING LUG
2 PL

AN3-3A BOLT
NAS1149D0332J WASHER
2 PL

SECTION A-A
SCALE 2X

SECTION G-G C4-1

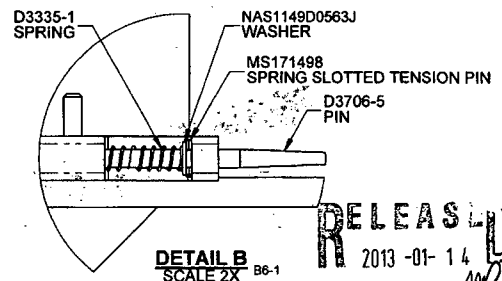
MS21075L3 NUTPLATE, 1X
CR1122-3-02.5 RIVET, 2X
14 PL

MS24693-C272 SCREW
4 PL

D3707-3 MOUNTING LUG
REF

B7-1

ITEM	QTY -041	P/N	DESCRIPTION
	X	D3705-041	INSTRUMENT PANEL ASSY
1	1	D3335-1	SPRING
2	1	D3705-043	INSTRUMENT PANEL WELDMENT
3	1	D3705-5	ACCESS PANEL
4	1	D3706-041	LOCK BRACKET ASSEMBLY
5	1	D3706-5	PIN
6	2	D3707-3	MOUNTING LUG
7	2	AN3-3A	BOLT
8	4	AN526C1032R6	SCREW
9	1	NAS1149D0563J	WASHER (OR AN960JD516)
10	28	CR1122-3-02.5	RIVET
11	1	MS171498	SPRING SLOTTED TENSION PIN
12	14	MS21075L3	NUT PLATE
13	4	MS24693C272	SCREW
14	2	NAS1149D0332J	WASHER (OR AN960JD10L)



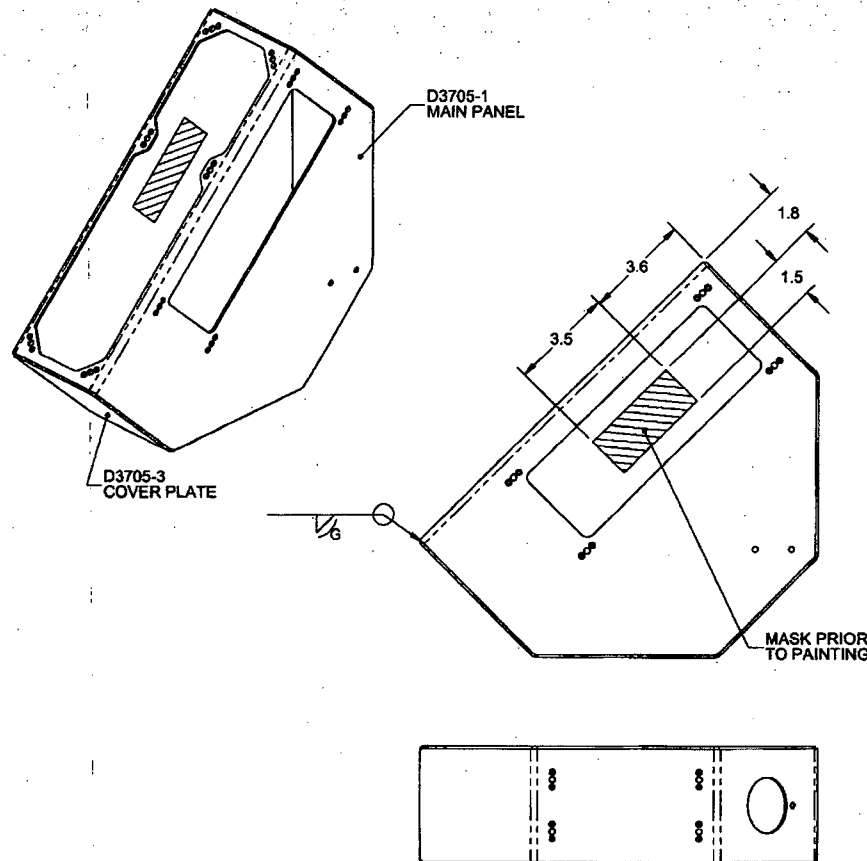
E	REVISED D3705-1/3 (NOW 0.75 TALLER - AFFECTS -1F/-3F); D3706-1/3 NOW D3706-041 AND BOLTED; ADD AN3-3A BOLT, NAS1149D0332J WASHER, D3706-041; 9.88 WAS 9.13 (ZN D3-3, B3-3, C7-4); 6.000 WAS 7.150 (ZN C4-6); 3.20 lbs WAS 3.00 lbs. REASON: CIR12-4/PART12-188.	MB	12.11.30
D	ITEM 14 WAS AN960JD416 (ZN D3-1 AND C1-1). REASON: NCR#10-017.	MB	10.04.15
C	ADDED D3705-7/9-11 (SHEET 6); REMOVED MS35589-156 GROMMET; 9.31 AND 12.66 WERE 9.36 AND 12.61 (ZN B6-3); Ø1.90 WAS 1.50 (ZN D5-4); ADDED Ø0.204 HOLE (ZN D5-4); CR1122-3-02.5 WAS MS20426AD3-3. REASON: COMPLETED DESIGN OF FACE PLATES REQUIRED TO MOUNT INSTRUMENTS.	MB	08.11.20
B	ADDED MS35489-156; QTY. 14 MS21075L3 WAS QTY. 8; QTY. 28 MS20426AD3-3 WAS QTY. 16; MS171498 WAS TP-2; AN526C1032R6 WAS MS27039-1-09 & AN960JD10L (ZN D3-1); REDESIGNED D3705-1F FLAT PATTERN (ZN B6-3). REASON: GIVE MORE FLEXIBILITY TO CUSTOMER IN TERMS OF INSTRUMENT ARRANGEMENT	MB	08.08.07
A	NEW ISSUE	MB	08.05.26
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.11.30		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D3705** REV. E
SHEET 1 OF 6
TITLE **INSTRUMENT PANEL ASSY** SCALE NTS

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ITEM	-043 QTY.	P/N	DESCRIPTION
1	X	D3705-043	INSTRUMENT PANEL WELDMENT
3	1	D3705-1	MAIN PANEL
4	1	D3705-3	COVER PLATE



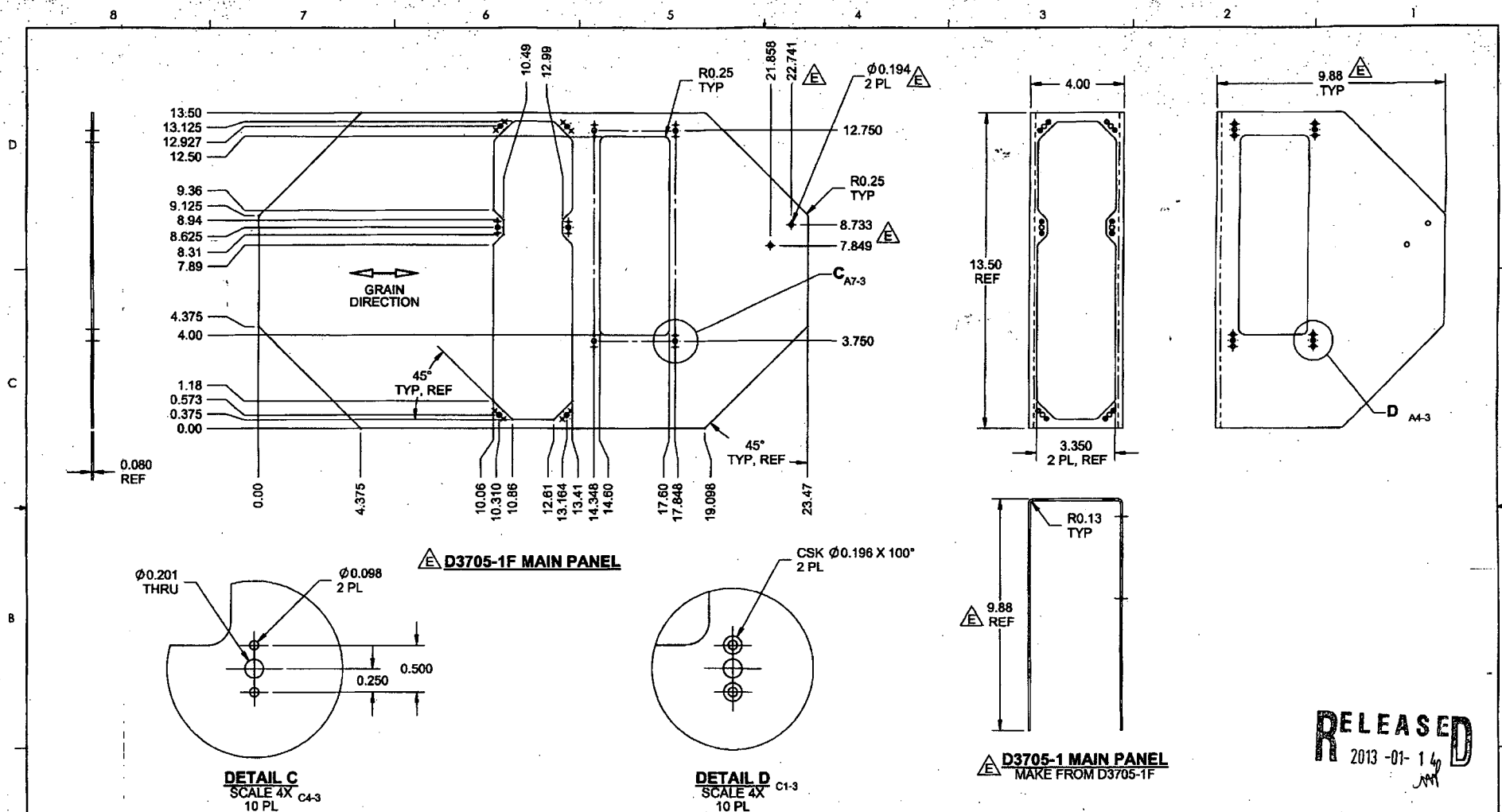
D3705-043 INSTRUMENT PANEL WELDMENT

D3705-043 NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT BLACK (4.3.5.7) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 3.20 lbs
- 8) WELDING: PER DART QSI 004

RELEASED
2013-01-14

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. E
MFG. APPR.		D3705	SHEET 2 OF 8
APPROVED		TITLE	SCALE
DE APPR.		INSTRUMENT PANEL ASSY	NTS
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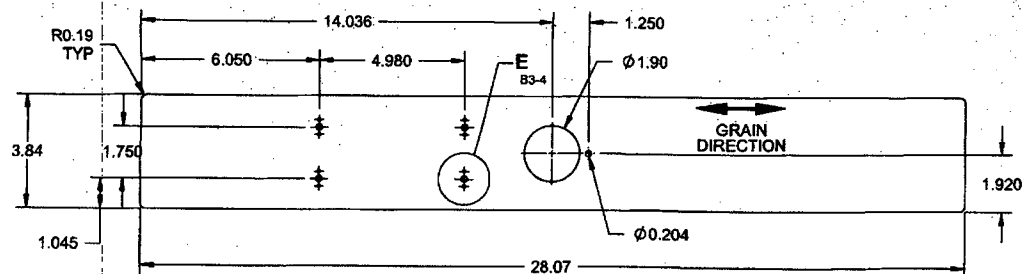


D3705-1F NOTES:

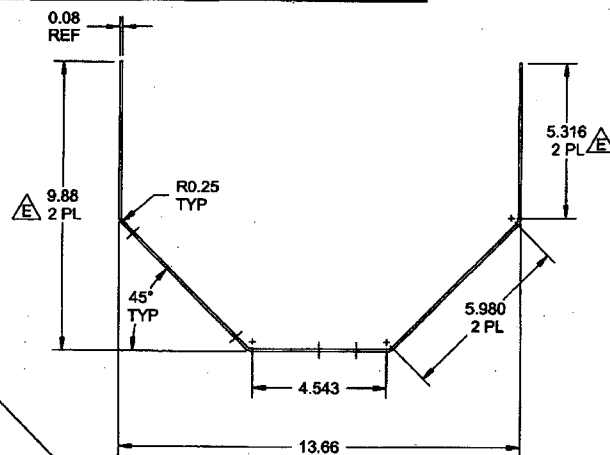
- 1) MATERIAL: 6061-T6 (OR 6061-T62) ALUMINUM SHEET, 0.080 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
(REF. DART SPEC. M6061T6S.080)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 1.65 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. D3705	REV. E
MFG. APPR.			SHEET 3 OF 6
APPROVED		TITLE	SCALE
DE APPR.		INSTRUMENT PANEL ASSY	NTS
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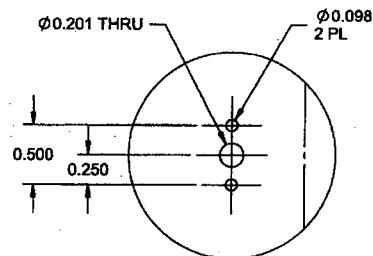
RELEASED
2013-01-14



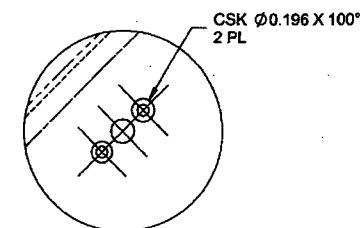
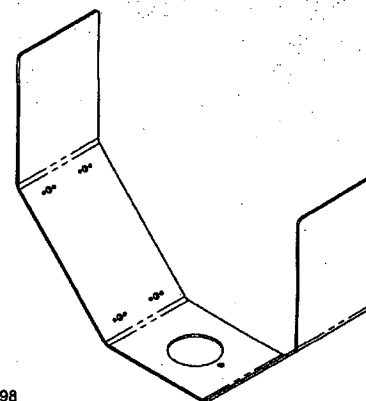
D3705-3F COVER PLATE FLAT PATTERN



**D3705-3 COVER PLATE
(MAKE FROM D3705-3F)**



**DETAIL E
SCALE 4X
4 PL**



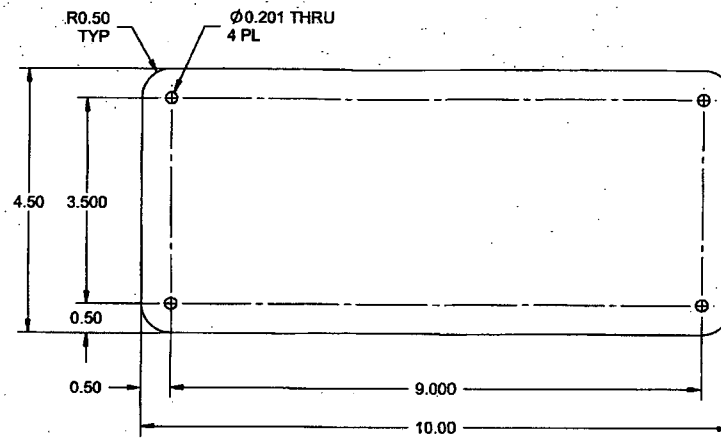
**DETAIL F
SCALE 4X
4 PL**

RELEASE
2013-01-14

D3705-3/-3F NOTES:

- 1) MATERIAL: 6061-T6 (OR 6061-T62) ALUMINUM SHEET, 0.080 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
(REF. DART SPEC. M6061T6S.080)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.82 lbs

DESIGN	1	DART AEROSPACE LTD	
DRAWN	2	HAWKESBURY, ONTARIO, CANADA	
CHECKED	3	DRAWING NO.	REV. E
MFG. APPR.	4	D3705	SHEET 4 OF 6
APPROVED	5	TITLE	SCALE
DE APPR.	6	INSTRUMENT PANEL ASSY NTS	
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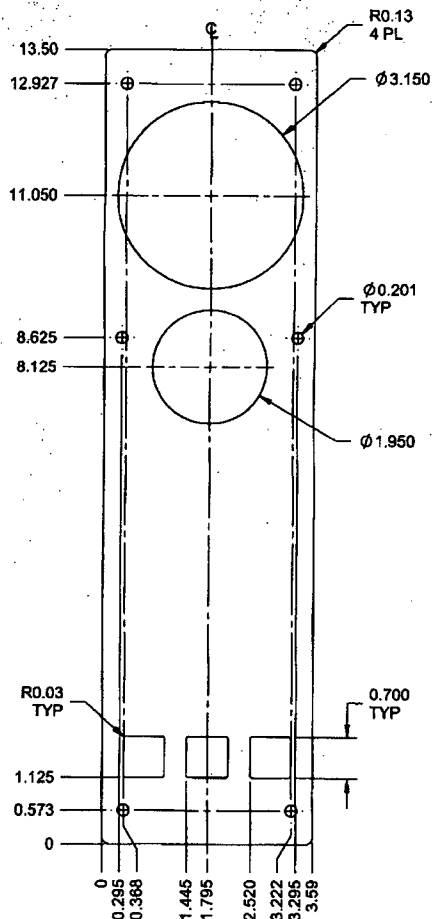
D3705-5 ACCESS PANEL

D3705-5 NOTES:

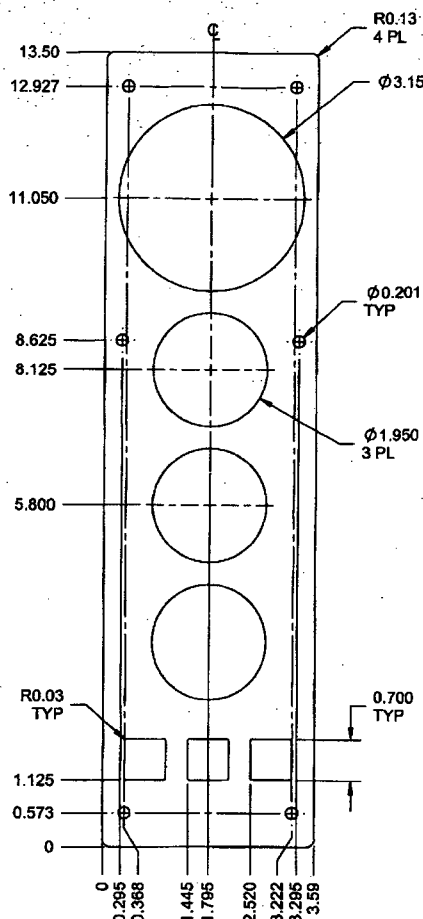
- 1) MATERIAL: 6061-T6 (OR 6061-T62) ALUMINUM SHEET, 0.040 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
(REF. DART SPEC. M6081T6S.040)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT BLACK (4.3.5.7) PER DART QSI 005 4.3
- 4) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 7) IDENTIFICATION: IDENTIFY WITH DART P/N AND B/N PER DART QSI 044 6.1 (PERMANENT INK MARKER)
- 8) WEIGHT: 0.17 lbs

DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. E
MFG. APPR.	<i>[Signature]</i>	D3705	SHEET 5 OF 8
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	INSTRUMENT PANEL ASSY	NTS
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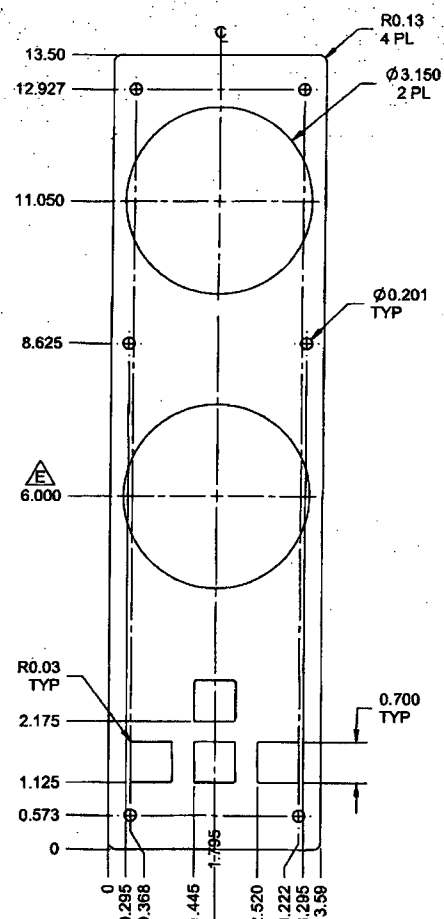
RELEASED
2013-01-14
[Signature]



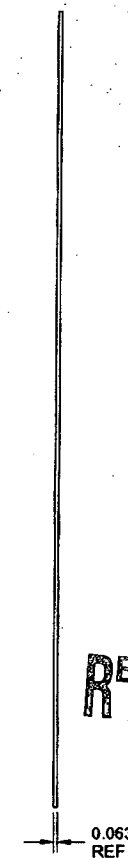
D3705-7 FACE PLATE



D3705-9 FACE PLATE



D3705-11 FACE PLATE



**SIDE VIEW
TYP**

D3705-7/-9/-11 NOTES:

- 1) MATERIAL: 6061-T6 (OR 6061-T62) ALUMINUM SHEET, 0.063 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
(REF. DART SPEC. M8061T6S.063)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT BLACK (4.3.5.7) PER DART QSI 005 4.3
- 4) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 7) IDENTIFICATION: IDENTIFY WITH DART P/N AND B/N PER DART QSI 044 6.1 (PERMANENT INK MARKER)
- 8) WEIGHT: D3705-7 = 0.22 lbs; D3705-9 = 0.18 lbs; D3705-11 = 0.19 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. E
MFG. APPR.		D3705	SHEET 6 OF 6
APPROVED		TITLE	SCALE
DE APPR.		INSTRUMENT PANEL ASS'Y	NTS
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RELEASE
2013-01-11

DART AEROSPACE LTD		Work Order: 143649
Description: Main Panel		Part Number: D3705-1
Inspection Dwg: D3705	Rev: E	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.098	+0.004/-0.001	Ø.098	/		Vide-02	
Ø0.201	+0.005/-0.001	Ø.201	/		Vide-01	
4.375	+/-0.010	4.375	/		Tap	
9.31	+/-0.030	9.31	/			
9.560	+/-0.010	9.560	/			
12.414	+/-0.010	12.414	/			
12.66	+/-0.030	12.66	/			
13.598	+/-0.010	13.598	/			
13.85	+/-0.030	13.85	/			
16.85	+/-0.010	16.85	/			
17.098	+/-0.010	17.098	/			
17.598	+/-0.010	17.598	/			
21.97	+/-0.030	21.97	/			
0.375	+/-0.010	.375	/			
0.573	+/-0.010	.575	/			
4.00	+/-0.030	4.00	/			
4.375	+/-0.010	4.377	/			
8.31	+/-0.030	8.31	/			
8.625	+/-0.010	8.627	/			
8.94	+/-0.030	8.94	/			
9.125	+/-0.010	9.125	/			
12.50	+/-0.030	12.50	/			
12.927	+/-0.010	12.927	/			
Ø0.194	+0.005/-0.001	Ø.195	/			
7.849	+/-0.010	7.849	/			
8.733	+/-0.010	8.733	/			
21.858	+/-0.010	21.858	/			
22.741	+/-0.010	22.741	/			

Measured by: <i>Dr</i>	Audited by: ^{DAS} 38	Preliminary Approval:
Date: 16/03/22	Date: ⁹⁻⁸⁹ MAR 23 2016	Date:

Rev	Date	Change	Revised by	Approved
A	09.05.15	New Issue	KJ	
B	13.06.27	Dimensions updated per Dwg Rev E	KJ	